PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416					
P27-051PCT		nth/year) Priority date (day/month/year)					
International application No.	International filing date (day/mon						
PCT/US04/09506	26 March 2004 (26.03.2004)	26 March 2003 (26.03.2003)					
International Patent Classification (IPC) or national classification and IPC							
IPC(7): C07C 229/00 and US Cl.: 560/9, 10, 15, 16, 19, 37, 38, 41, 47, 100, 103, 105,; 562/405, 426, 427, 422, 441, 442, 443, 490,							
Applicant							
PURDUE RESEARCH FOUNDATION							
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of	f a total of Sheets, includ	ing this cover sheet.					
3. This report is also accom	AND ITATION and a single state of the state						
a. (sent to the applic	ant and to the International Bu	reau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which that goes b	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of						
Box No. I a	and the Supplemental Box.	•					
b (sent to t	the International Bureau only)	a total of (indicate type and number of electronic carrier(s))					
, con	taining a sequence listing and/or the Supplemental Rox Re	clating to Sequence Listing (see Section 802 of the					
Administrative	Instructions).						
	cations relating to the followin	g items:					
	Basis of the report						
<u> </u>	Priority	the state investige etch and industrial					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
	Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI	Certain documents cited						
Box No. VII Certain defects in the internal		onal application					
Box No. VIII	Certain observations on the in	ternational application					
Date of submission of the demand		Date of completion of this report					
2004 (20 00 0004)		22 August 2005 (22.08.2005)					
30 September 2004 (30.09.2004) Name and mailing address of the IPEA/ US		Authorized officer					
Mail Stop PCT, Attn: IPEA/U		1 Political					
Commissioner for Patents P.O. Box 1450		Karl J. Puttlitz J. 100000 901					
Alexandria, Virginia 22313-14 Facsimile No. (703) 305-3230	.50	Telephone No. (571) 272-1600					

Form PCT/IPEA/409 (cover sheet)(January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/09506	

Box No. I Basis of the report 1. With regard to the language, this report is based on the international application in the language in which if filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language	it was
filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language	it was
This report is based on translations from the original language into the following language	
which is the language of a translation furnished for the purposes of:	·'
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.4)	
international preliminary examination (under Rules 55.2 and/or 55.3)	
2. With regard to the elements of the international application, this report is based on (replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originand are not annexed to this report):	have been inally filed"
the international application as originally filed/furnished	
the description:	
pages 1-55 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
5-7	
the claims:	
pages 56-61 as originally filed/furnished pages* NONE as amended (together with any statement) under Article 19	
pages* NONE as an ended (together with any statement) and a same pages pages none received by this Authority on	
pages* NONE received by this Authority on	
the drawings:	
pages 1-7 as originally filed/furnished	
pages* NONE received by this Authority on pages* NONE received by this Authority on	
• -	
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
4. This report has been established as if (some of) the amendments annexed to this report and listed below had n since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (R	ot been made ule 70.2(c)).
the description, pages	
the claims, Nos	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/09506

•	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial
Box No. V	Reasoned statement under Article 35(2) with regard to hoverly, inventive step of industrial
20221101	applicability; citations and explanations supporting such statement
	applicability, citations and aspect aspect and aspect and aspect asp

1. Statement

Novelty (N)	Claims 4, 5, 7, 8, 10-12, 15, 21 and 23-38 Claims 1-3, 6, 9, 13, 14, 16, 17, 18, 19, 20 and 22	YES NO
Inventive Step (IS)	Claims 4, 5, 7, 8, 10-12, 15, 21 and 23-38 Claims 1-3, 6, 9, 13, 14, 16, 17, 18, 19, 20 and 22	YES NO
Industrial Applicability (IA)	Claims 1-38 Claims NONE	YES NO

2. Citations and Explanations (Rule 70.7)

Claims 1-3, 6, 9, 13, 14, 16, 17, 18, 19, 20 and 22 lack novelty under PCT Article 33(2) as being anticipated by Gibbs et al. This reference teaches compound registry no. 148101-36-4P, which anticipates the compounds of the rejected claims.

Claims 1-3, 6, 9, 13, 14, 16, 17, 18, 19, 20 and 22 lack novelty under PCT Article 33(2) as being anticipated by Ma et al. This reference teaches compound registry nos. 147263-95-4P and 156743-28-1P, which anticipate the compounds of the rejected claims.

Claims 1-3, 6, 9, 13, 14, 16, 17, 18, 19, 20 and 22 lack novelty under PCT Article 33(2) as being anticipated by Xu et al. This reference teaches compound registry nos. 147263-95-4P, which anticipates the compounds of the rejected claims.

Claims 4, 5, 7, 8, 10-12, 15, 21 and 23-38 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the compounds and methods covered by these claims.

Claims 1-38 the criteria set out in PCT Article 33(4), and thus claims 1-38 have industrial applicability because the subject matter claimed can be made or used in industry, such as therapeutic agents.